

International application No.

PCT/US04/18736

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B29C 47/78

US CL : 264/40.1, 40.3; 425/141, 143, 149, 150

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 264/40.1, 40.3; 425/141, 143, 149, 150

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,259,716 A (HOSHINO et al) 09 November 1993 (09.11.1993), see figures 1, 5, 8, 12,	1, 7-9, 11, 14-17
---	13, 20; column 2, lines 1-8, 23-27 and 42-56; column 7, lines 19-46; column 9, lines 7-38;	-----
Y	column 11, line 66 to column 12, line 54; column 14, lines 38-48; column 15, lines 19-24 and column 18, lines 9-24 and 64-68.	2-6, 10, 12, 13, 18
Y	US 6,186,760 B1 (LATHAM) 13 February 2001 (13.02.2001), see figures 1-4; column 2, lines 3-21 and 43-55; column 3, lines 36-39 and 54-61 and column 4, lines 1-24 and 49-67.	2, 4, 10, 12, 18
Y	EP 1175990 A1 (BALL CORPORATION) 30 January 2002 (30.01.2002), see paragraphs 10, 13, 17, 33 and 37-42 and figures 5-8B.	3, 10, 12, 18
Y	US 5,772,951 A (COXHEAD et al) 30 June 1998 (30.06.1998), see column 7, line 60 to column 8, line 7.	5, 13
Y	US 5,665,399 A (ENDERBY) 09 September 1997 (09.09.1997), see column 1, lines 9-22 and column 4, lines 5-17.	6, 13
A	WO 01/65204 A1 (PLASTIC TECHNOLOGIES, INC.) 07 September 2001 (07.09.2001), see entire disclosure.	1-18

☐ Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

*E earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

“Y”

document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

- 2 -

document member of the same patent family

Date of the actual completion of the international search

05 November 2004 (05.11.2004)

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230

Date of mailing of the international search report

01 DEC 2004

Authorized officer

Robert B. Davis

Telephone No. 571-272-0987